

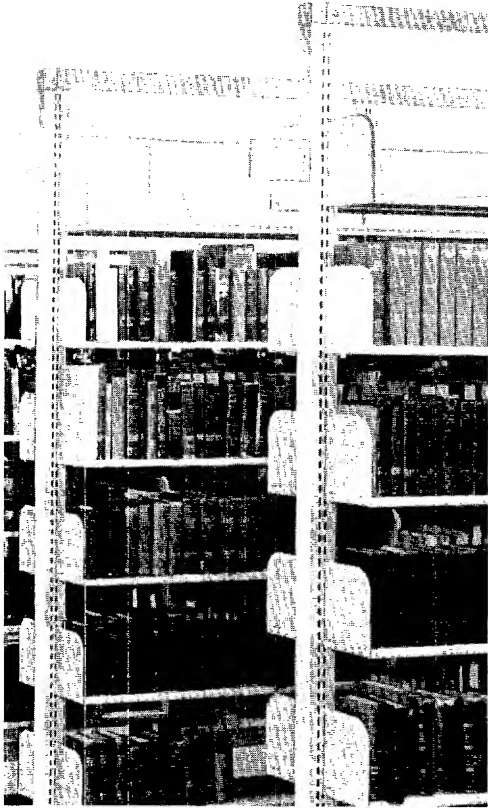
# UNITYPE

## SINGLE TIER BRACKET BOOKSTACKS

YOUNG AND WATSON  
3703 BONITA ST., S. E.  
WASHINGTON, D. C. 20023  
TEL. 423 - 1121

# ART METAL *UNITY*TYPE

## BRACKET BOOKSTACKS



Art Metal now offers the UNITYTYPE bookstack—a single tier, bracket-type stack—immediately available from stock. It is equally well suited for large or small school libraries, memorial and private, professional and business libraries and single-tier installations for college, university and public libraries. The Unitytype bookstack offers unequalled flexibility and scope of use in a standardized stock bookstack. It embodies all of Art Metal's experience in designing, engineering and erecting large and small bookstack installations for more than sixty-eight years.

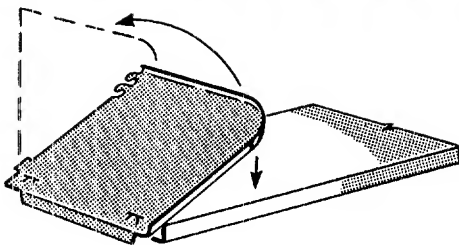
Unitytype single-tier bookstacks are stocked for immediate shipment in 36" and 30" shelf widths (on column centers) and in 8", 10" and 12" shelf depths. (These depths indicate the full storage depth from face of shelf to centerline of stack. Actual shelf depths are one inch less.) Combining 36" and 30" units offers the advantages of a 6" planning module for maximum efficiency and flexibility in space layouts usually restricted to custom-built stacks. The stock column height of 90" accommodates seven shelves on each face—one closed base shelf and six adjustable shelves.

Slots spaced one inch on centers, full column height, provide for variable shelf adjustments to meet any requirements. These are coded (by shape) so a quick, visual check determines if shelves are level and brackets are engaged in proper slots.

Further flexibility is achieved by combining 8", 10" or 12" shelves in the same bay. Adjoining shelf brackets have a smooth, half-round profile and occupy only one-half inch space. Their snug fit prevents knifing of books over brackets and further provides an unequalled actual storage width of 35½" for each 36" shelf.

The functional stack design eliminates all unnecessary weight, a factor in planning and transportation costs. Unitytype bookstacks offer additional economies because of stock manufacture and the benefits of immediate delivery. Finished end panels are supplied from stock for use where a more finished appearance is desired or where enclosed stacks are required.

Art Metal's wide experience in planning is offered without cost to aid you in securing all of the advantages of using stock units wherever possible. To be of the greatest possible value to you this cooperation should begin with the initial planning. Ask your local Art Metal dealer about this service.



### **UNITYTYPE folding bracket shelves**

Art Metal's unique and exclusive feature—the patented FOLDING BRACKET Shelf (Pat. No. 2675925)—is an integral part of the Unitytype BRACKET Bookstack.

Complete, factory-assembled shelves are easy to handle and convenient to use. Brackets fold flat against shelves for economies in shipping and in storage of unused shelves. The complete shelves are ready for use by merely raising the brackets to vertical position. They are easily hooked into the column slots and can be relocated as complete units without removing books. Full-depth bottom flanges support the full load of shelves and contents. Art Metal folding brackets do not disengage from the shelves—the shelf units are always complete assemblies, ready for use.

## CONSTRUCTION FEATURES

Unit type stock bookstacks have 90" high columns; 8", 10" and 12" shelf storage depths and 36" and 30" shelf widths.

### TOP PLATES

Full depth and width protection for top shelf contents. Will accept shelf labelholders and wire book supports. Available from stock as extras.

### TOP COVER CHANNELS

Stocked in various lengths from 30" and 36" up, in multiples and combinations of these two lengths. Furnished in maximum practical lengths up to 120" for rigidity and unified range structure. Insures accurate top alignment of columns.

### RECTANGULAR COLUMNS

2½" x 2" x 90" high; smooth, closed-box shape with no exposed edges or projecting flanges. Two opposite faces have double rows (full column height) of vertical slots 1" on centers which support shelves. Pattern of two slot shapes permits visual check to determine if shelves are level.

### SWAY BRACES

Diagonal steel rods, adjustable for proper tension, insure lateral stability. One pair of braces furnished for each fifth Unit in a range.

### ADJUSTABLE SHELVES

Bracket shelves have maximum adjustment on one inch spaced column slots. Double bracket hooks engage in slots for rigid shelf support. Bottom safety lugs key into column slots to prevent accidental disengagement of shelves. Brackets have smooth under-surfaces for handling comfort. Smooth, rounded profiles protect books. Adjoining brackets occupy only ½" space. Shelves have ¾" high continuous box reinforcements, formed in, front and rear.

### FOLDING SHELF BRACKETS

Adjustable bracket shelves have factory attached folding brackets which lie flat against shelf when stored. Brackets are easily raised to vertical position and hook in place in the column. Loaded shelves can be moved as a unit without removal of books.

### NON-SLIP FOOTINGS

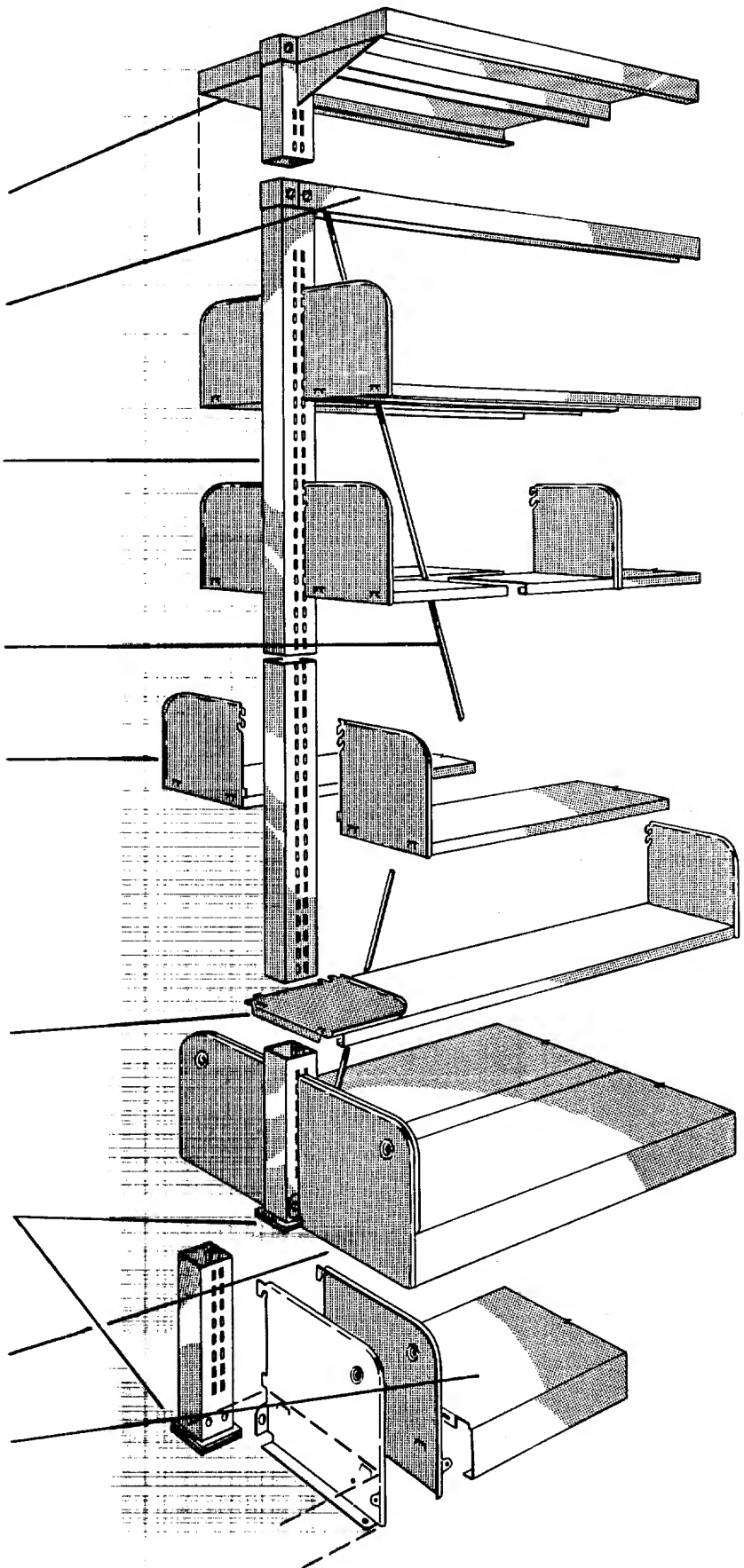
Neoprene pads under column footings eliminate need for anchoring stack to floor. However, facilities are provided where permanent anchorage is desired.

### BASE BRACKET COVER

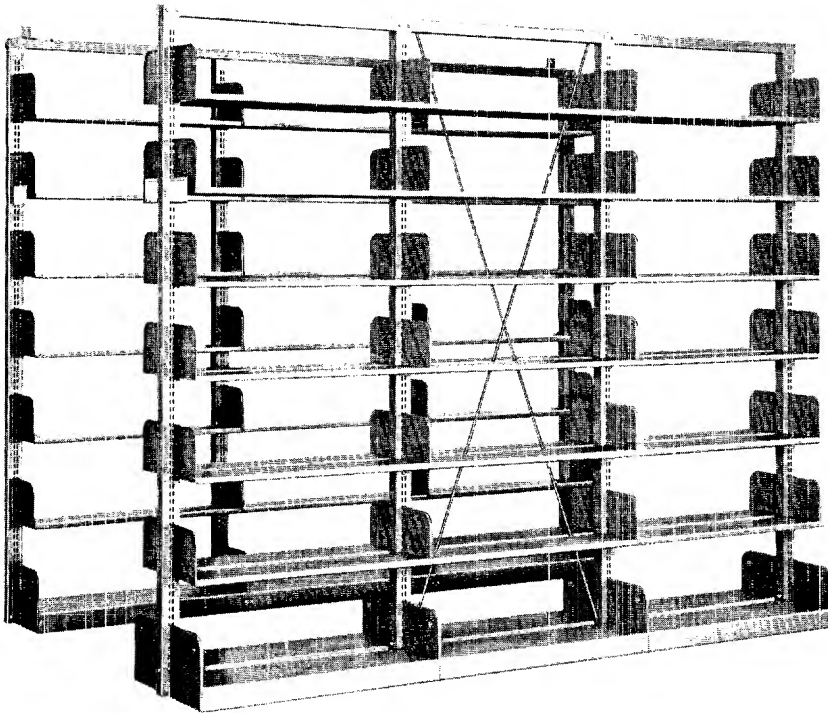
At open range ends, brackets of closed base shelves have a smooth, neat cover for finished appearance.

### CLOSED BASE SHELVES

Front of base shelves encloses base brackets and forms a smooth, flush surface closing snugly to floor.



## CLOSED BASE bracket bookstack



Each Unitype closed base unit has seven shelves for each face—six adjustable folding bracket shelves and one fixed closed base shelf. Starter Units have two columns. Succeeding Adder Units have one column. Single-faced stacks are supplied with wall clips for rigid fastening. All double faced stacks have sway braces and/or end clips as required.

Stacks 12" in depth have horizontal top cross bracing. Top cover channels assure positive alignment, give rigid, unified range structure. Units can be readily rearranged as required. Top cover channels are stocked in several lengths from 30" and 36" up. Bottom spacer channels are supplied with all units to complete the accurate alignment and bracing of columns. Floor plans must accompany orders.

Additional pairs of sway braces can be ordered from stock if needed for stack rearrangement. Exposed ends of ranges have base bracket covers at the floor to add to finished appearance. Rangefinders and labelholders are stocked for open range end applications.

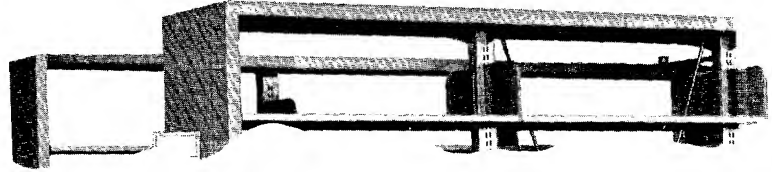
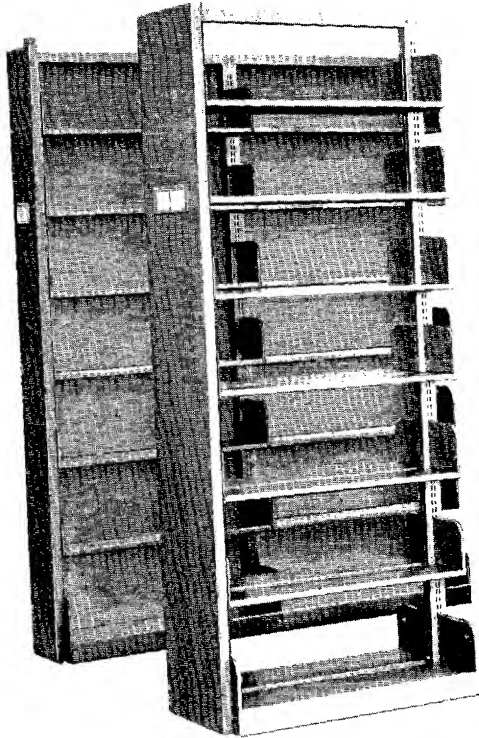
### STYLE NUMBERS

### Single-Faced Closed Base Units

36" WIDTH	30" WIDTH	
2218	2238	One Single-Faced Bookstack Starter Unit containing two columns, top cover channel, bottom spacer channel, six folding-bracket bookshelves 8" deep, one base bookshelf 10" deep with base bracket covers.
2210	2230	One Single-Faced Starter Unit as above except with adjustable shelves 10" deep and base shelf 12" deep.
2212	2232	One Single-Faced Starter Unit as above except with adjustable shelves and base shelf 12" deep.
2218A	2238A	One Single-Faced Bookstack Adder Unit containing one column, top cover channel, bottom spacer channel, six folding-bracket bookshelves 8" deep and one base bookshelf 10" deep.
2210A	2230A	One Single-Faced Adder Unit as above except with adjustable shelves 10" deep and base shelf 12" deep.
2212A	2232A	One Single-Faced Adder Unit as above except with adjustable shelves and base shelf 12" deep.



## CLOSED BASE bracket bookstack



### ▲ TOP PLATES

Top plates are used for dust protection and to finish off stacks where appearance is important. Used in combination with end panels, they provide a complete, cabinet-type enclosure. Art Metal top plates accept the same shelf labelholders and wire book supports used in all other storage openings. Style numbers for Top Plates are listed on page 10.

### ◀ FINISHED END PANELS

For a fine, finished appearance, End Panels are added to range ends of Unitype stacks. Both single and double faced panels are available. Closed base shelves for 8" and 10" depth stacks normally project 2" beyond end panels. These are finished at ends by filler brackets which are included in the prices of end panels. See page 7 for style numbers of Finished End Panels.

### ◀ CLOSED BACK PANELS

Closed Back Panels provide finished appearance for single faced units placed against walls. Also give extra protection against dust. Back panels also are used between columns of double-faced units.

### STYLE NUMBERS

### Double-Faced Closed Base Units

36" WIDTH	30" WIDTH
2228	2248
2220	2240
2222	2242
2228A	2248A
2220A	2240A
2222A	2242A

One Double-Faced Bookstack Starter Unit containing two columns, top cover channel, bottom spacer channel, twelve folding-bracket bookshelves 8" deep, and two base bookshelves 10" deep with base bracket covers.

One Double-Faced Starter Unit as above, except with adjustable shelves 10" deep and base shelves 12" deep.

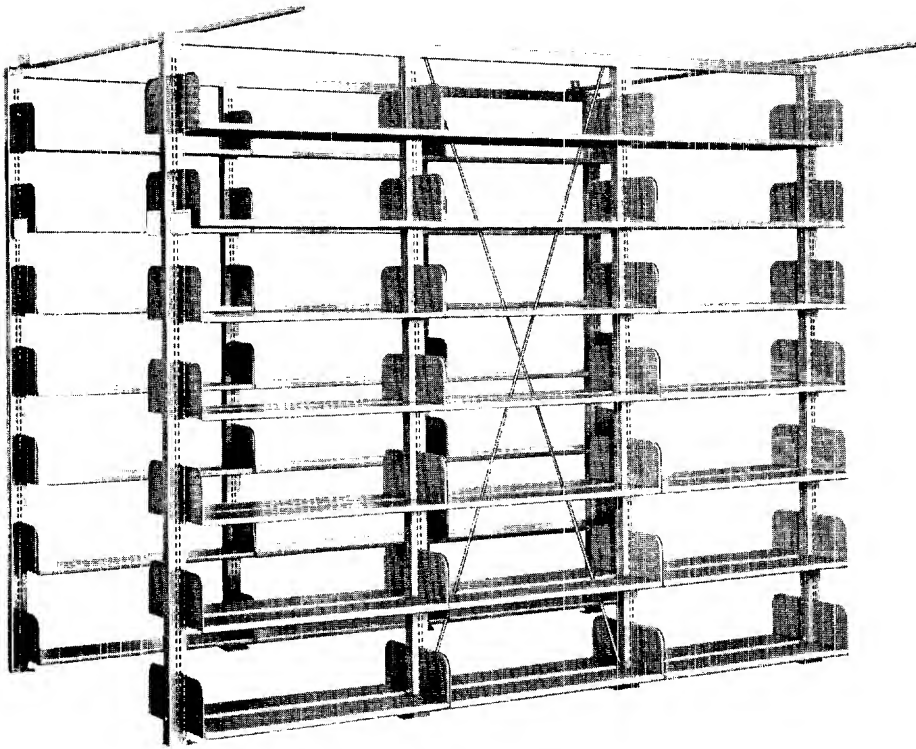
One Double-Faced Starter Unit as above, except with adjustable shelves and base shelves 12" deep. Includes Top Bracing.

One Double-Faced Bookstack Adder Unit containing one column, top cover channel, bottom spacer channel, 12 folding-bracket bookshelves, 8" deep, and two base bookshelves 10" deep.

One Double-Faced Adder Unit as above, except with adjustable shelves 10" deep and base shelves 12" deep.

One Double-Faced Adder Unit as above, except with adjustable shelves and base shelves 12" deep. Includes Top Bracing.

## OPEN BASE bracket bookstack



Open base bookstacks are supplied in starter and adder units similar to closed base stacks, and with the components as described on page four, except for the following changes: open base stacks have the advantages of seven adjustable shelves. There is also a clear toe space, continuous under the complete range even at the lowest position of the bottom shelf, 3" from the floor.

Open base stacks are normally furnished with all shelves the same depth, but may be specified with bottom shelves 2" deeper. Extra cost is nominal. Top bracing to walls or building structure must be used with double-faced open base stacks.

Floor plans must accompany all orders, since both top bracing and top cover channels are supplied in accordance with plan requirements.

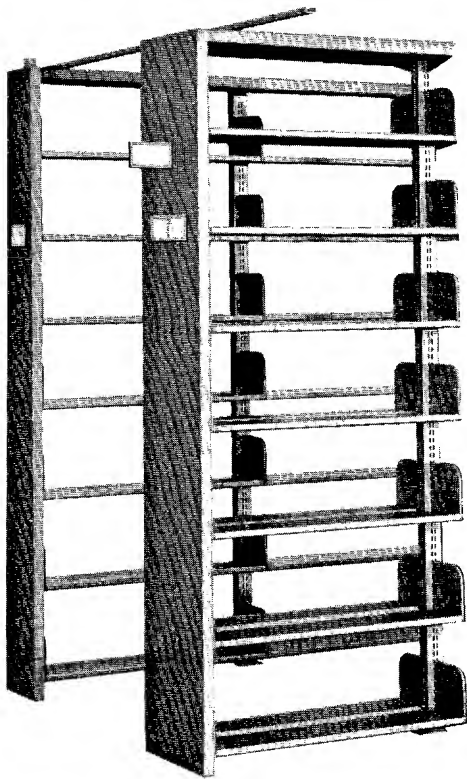
### STYLE NUMBERS

### Single-Faced Open Base Units

36" WIDTH	30" WIDTH	
OB-2218	OB-2238	One Single-Faced Bookstack Starter Unit containing two columns, top cover channel, bottom spacer channel, seven folding-bracket bookshelves 8" deep.
OB-2210	OB-2230	One Single-Faced Starter Unit as above, except with seven adjustable shelves 10" deep.
OB-2212	OB-2232	One Single-Faced Starter Unit as above, except with seven adjustable shelves 12" deep.
OB-2218A	OB-2238A	One Single-Faced Bookstack Adder Unit containing one column, top cover channel, bottom spacer channel, seven folding-bracket bookshelves 8" deep.
OB-2210A	OB-2230A	One Single-Faced Adder Unit as above, except with seven adjustable shelves 10" deep.
OB-2212A	OB-2232A	One Single-Faced Adder Unit as above, except with seven adjustable shelves 12" deep.



## OPEN BASE bracket bookstack



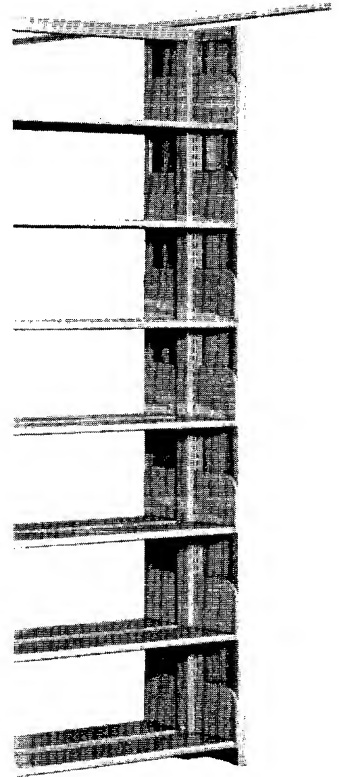
### FINISHED END PANELS

Open Base Stacks utilize the same Finished End Panels described on page 5 except that filler brackets are not used at the floor. Top Plates are the same as described on Page 5.

### STYLE NUMBERS

Right hand (facing stack) finished end panel for single-faced stack 8" deep	22E8R
Same as above, left hand	22E8L
Right hand finished end panel for single-faced stack 10" deep	22E10R
Same as above, left hand	22E10L
Right hand finished end panel for single-faced stack 12" deep	22E12R
Same as above, left hand	22E12L
Finished end panel for double-faced stack 8" deep	22E8D
Same as above for double-faced stack 10" deep	22E10D
Same as above for double-faced stack 12" deep	22E12D

\*For Open Base Units, add prefix OB, as OB-22E8R, OB-22E8L etc.



### STYLE NUMBERS

### Double-Faced Open Base Units

36" WIDTH	30" WIDTH
OB-2228	OB-2248
OB-2220	OB-2240
OB-2222	OB-2242
OB-2228A	OB-2248A
OB-2220A	OB-2240A
OB-2222A	OB-2242A

One Double-Faced Bookstack Starter Unit containing two columns, top cover channel, bottom spacer channel, 14 folding-bracket bookshelves 8" deep.

One Double-Faced Starter Unit as above, except with 14 adjustable shelves 10" deep.

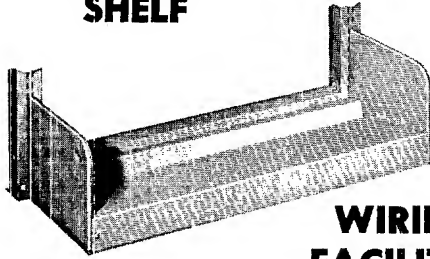
One Double-Faced Starter Unit as above, except with 14 adjustable shelves 12" deep.

One Double-Faced Adder Unit containing one column, top cover channel, bottom spacer channel, 14 folding-bracket bookshelves 8" deep.

One Double-Faced Adder Unit as above, except with 14 adjustable shelves 10" deep.

One Double-Faced Adder Unit as above, except with 14 adjustable shelves 12" deep.

## SLOPING BASE SHELF



Fixed bottom shelves with an upward slope are stocked for closed base stacks. These shelves project 2" beyond stack face and have a formed-in bookstop. They tilt books for more light and easier reading of titles. Sloping base units are designated by adding prefix SB to the style number, as SB-2218, etc. (Not furnished with 12" deep stacks.)

## WIRING FACILITIES

Columns at range ends will be furnished with switch cut-outs and Underwriters' approved wire raceways if ordered. Amconduct raceways can be provided to supply ducts for all wiring circuits and support for range and main aisle lights.

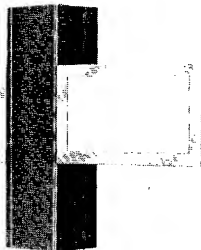
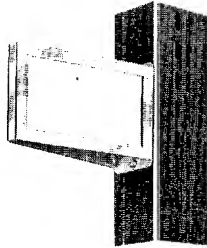


## bookstack accessories

Labelholders and rangefinders are steel with a durable, plated finish. Labels are standard 5" x 3" cards. All book supports, except wire type, are finished to match shelves. Wire book support is supplied in black. Above accessories furnished as ordered at extra cost.

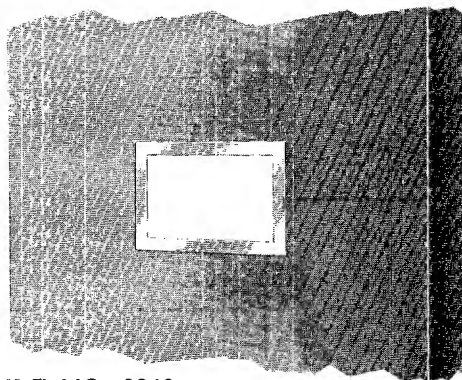
### STYLE NO. 2260

Rangefinder for either columns or finished end panels. Double-faced.



### STYLE NO. 2261

Labelholders for open range ends (columns).



### STYLE NO. 2262

Single labelholder for single-faced end panel.

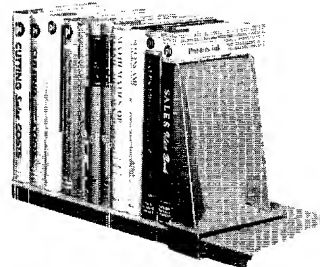
### STYLE NO. 2263

Double labelholder for double-faced end panel.



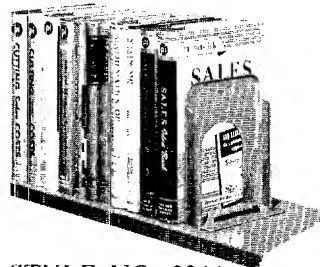
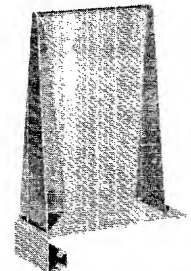
### STYLE NO. 2267

Shelf labelholder, snaps on shelf. Uses 5" x 11/16" card, with plastic cover. For book of 144 extra cards, specify style 2267L.



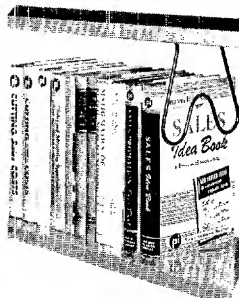
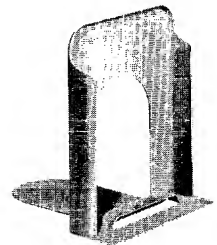
### STYLE NO. 2268

Hook-on book support (Pilfer-Proof). Hooks around front shelf flanges.

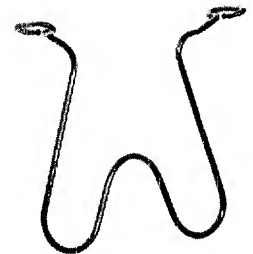


### STYLE NO. 2264

Findable book support, 6" high for ordinary size books. 10" high for larger books Style No. 2265.



Wire book support, engages in shelf flanges above book space.

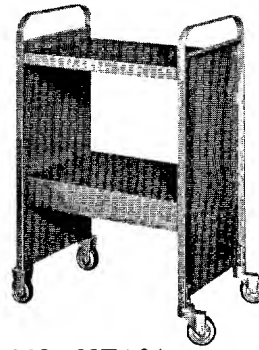


8" SHELF STYLE 22W8  
10" SHELF STYLE 22W10  
12" SHELF STYLE 22W12

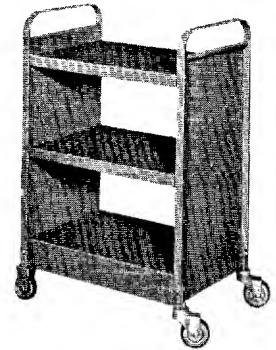
## LIBRARY BOOK TRUCKS

Type A-24 booktruck (Style 22TA24) has steel end panels, radius end handles and 3" rubber casters with ball bearing swivels. Two shelves, each 24" x 15". Height—35".

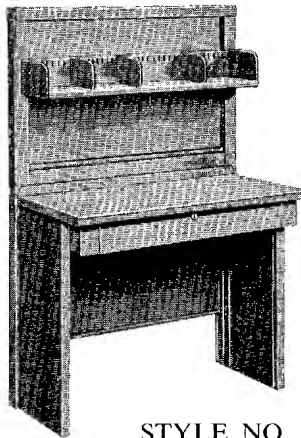
Type B-24 booktruck (Style 22TB24) is same as A-24 but with three shelves.



STYLE NO. 22TA24



STYLE NO. 22TB24



STYLE NO.  
22CD1DL

## UNITYPE carrel desks

Single-faced Unitype free-standing Carrel Desk with linoleum covered worktop 36" x 22" with aluminum edging. Has one adjustable, divider-type bookshelf.

Style No. 22CD1.

With one box drawer

Style No. 22CD1D.

With one locking box drawer Style No. 22CD1DL.

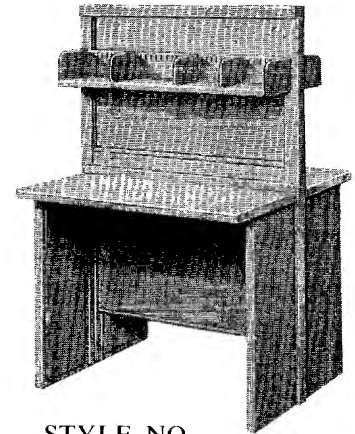
Double-faced Unitype free-standing Carrel Desk, each face with linoleum covered worktop 36" x 22" with aluminum edging, and one divider-type bookshelf.

Style No. 22CD2.

With one box drawer each face Style No. 22CD2D.

One locking box drawer each face

Style No. 22CD2DL.



STYLE NO.  
22CD2

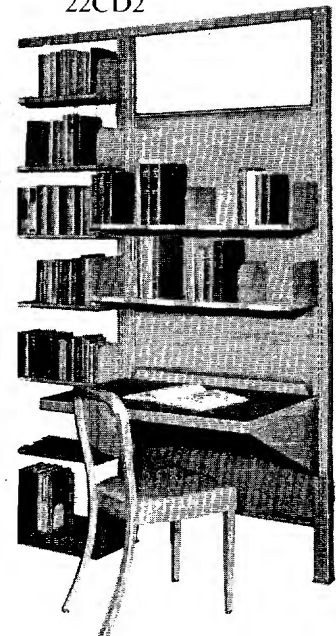
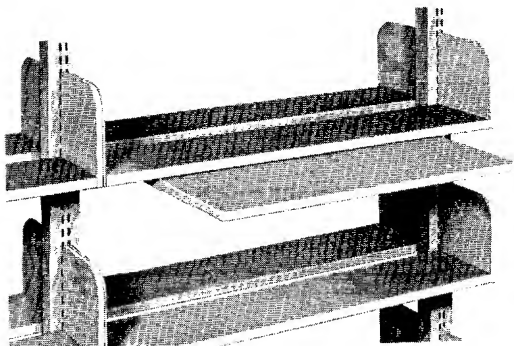
## MOVABLE WORK DESK

Linoleum covered worktop 36" x 22" has hooked brackets which engage in column slots. Brackets fold for storage. Desk forms a temporary or permanent study carrel anywhere in bookstack area. It is also an excellent sorting desk. For wall fastened or top-braced stacks only. Style No. 22MWD.

Steel dividing panel for work desk. It provides privacy from facing shelves or carrels. Fastens to stack columns by clips and is readily detachable. Style No. 22WDP.

WORK DESK  
STYLE NO. 22MWD

DIVIDING  
PANEL  
STYLE NO. 22WDP



## sliding reference shelf

Baked enamel sliding shelf for double-faced stack 8" deep. Pulls out about 10" from either stack face.

Fits 36" and 30" widths.

Style No. 22R28.

For double-faced stack 10" deep—pulls out about 11".

Style No. 22R20.

For double-faced stack 12" deep—pulls out about 13".

Style No. 22R22.

**general data****UNITYPE BOOKSTACKS****TOP BRACING**

To assure proper stability under all loading conditions, all double-faced open base (OB) stacks, as well as 12" deep closed base stacks, must be braced to walls or building structure. All necessary top bracing channels, clips, splices, etc. are furnished with these stacks. Top bracing is available at extra cost with 8" and 10" deep closed base stacks where special service requirements must be met.

**FLOOR PLANS**

Floor plans of stackroom area must be supplied to Art Metal Engineering Department. They are required for proper detailing of top cover channels and top bracing.

**ACCESSORIES**

Bookstack accessory equipment, including Carrel Desks, Work Desks, sliding reference shelves, booktrucks, labelholders, rangefinders and book supports, are not included in the bookstack prices. They do, however, offer the advantages of stock pricing.

**FINISHES**

Unitype bookstacks are finished in long-life No. 697 gray for stock shipment. This pleasing neutral gray blends with any decorative scheme. Other colors are available at nominal extra cost. We recommend especially the distinctive Art Metal decorator colors. A wide choice of plain enamel colors and grained finishes are available, as well as special color matching.

**SPECIAL REQUIREMENTS**

We advise using complete stock installations wherever possible to benefit from lower price and immediate availability of Unitype parts. Where special conditions require any custom-built items, the additional planning and fabricating make it necessary to place the complete order on a contract basis. This applies to special height columns or end panels (if over 102" high), special shelves, linoleum-covered reference shelves and grained finishes.

Other units available on a custom-built basis:

- bound newspaper or folio shelving
- display and storage shelving for periodicals
- heavy-duty shelving for phonograph records, transcriptions, talking books
- shelves for motion picture film or magnetic tape reels
- locking cabinet shelves for rare or reserved books
- charging desks      —dictionary stands
- atlas cases          —and other specialized items

Requirements for all special sizes and special-purpose equipment must be submitted to the Contract Department for quotation on price and delivery. The services of our experienced Library Engineering staff are available to assist in preparing preliminary drawings and specifications. This service is rendered without cost or obligation. Please include complete information with your inquiry.

**SHIPPING**

Unitype bookstacks are shipped K.D. Simplified construction makes installation easy and economical.

**PARTS LIST**

	36" WIDTH	30" WIDTH
Adjustable Folding-Bracket Bookshelf 8" deep	22S68	22S08
Same 10" deep	22S60	22S00
Same 12" deep	22S62	22S02
Closed Base Bookshelf 8" deep	22B68	22B08
Closed Base Bookshelf 10" deep	22B60	22B00
Same 12" deep	22B62	22B02
Sloping Base Bookshelf 10" deep	22SB60	22SB00
Same 12" deep	22SB62	22SB02
Base Bracket Covers, pr. 8" deep		22BC8
Same, 10" deep		22BC10
Same, 12" deep		22BC12

	36" WIDTH	30" WIDTH
Top Plate for Starter Unit 8" deep. (Order 2 for Double-faced Unit)	22T68	22T08
Same 10" deep	22T60	22T00
Same 12" deep	22T62	22T02
Top Plate for Adder Unit 8" deep. (Order 2 for Double-faced Unit)	22T68A	22T08A
Same 10" deep	22T60A	22T00A
Same 12" deep	22T62A	22T02A
Closed Back Panel	22BB36	22BB30
Extra Sway Braces, per pair	2253	2254



# library planning data

## shelf information

Standard center-to-center width for bookstack shelves is 36". Use of an occasional 30" bay, where necessitated by plan dimensions, results in a highly efficient 6" planning module. Actual bracket shelf widths are 35½" and 29½".

Shelf depths are normally designated as schedule depths which, in bracket shelves, is the actual depth plus 1" for construction allowance. In Art Metal Unitype stacks this 1" space allowance is open and available for book storage, except where stack columns occur. All double-faced stacks provide unobstructed, combined shelf depths of 16" or more. This is ideal for flat storage of large folios and bound volumes of newspapers. The table shown at the right is based on schedule shelf depths. In general, the percentage of shelf depths needed in an average library is 80 percent for 8" depth, 15 percent for 10" and 5 percent for 12" shelf depth.

## ultimate storage capacity

Storage capacity of Unitype Bookstacks varies with the kind of book stored. It can be determined by adding a quantity of 2/5s more books to the figures shown under "Working Capacity" in the table at the right. This applies to only the following kinds of books.

Art (except Large Folios)      History  
General Literature              Technical & Scientific  
For all other kinds of books listed, add 1/3 more books to the figures shown for "Working Capacity."

AVERAGE BOOK CAPACITIES (In Volumes)	Recommended Depth of Shelves	WORKING CAPACITY							
		Per Linear Foot of Shelf	Per Linear Foot of S.F. Stack	Per Linear Foot of D.F. Stack	Per 36" Shelf	Per 36" S.F. Bay	Per 36" D.F. Bay	Per Sq. Ft. of Stackroom Area	Per Cu. Ft. of Stackroom Volume
Kind of Books									
Art (Except Large Folios)	10 or 12	5	30	60	15	90	180	15	1.8
Circulating (Non-Fiction)	8	6	42	84	18	125	250	19	2.5
Economics	8	6	42	84	18	125	250	19	2.5
Embossed for the Blind	15	3	18	36	9	54	108	8.5	1
Fiction	8	6	42	84	18	125	250	19	2.5
General Literature	8	5	35	70	15	105	210	18	2
History	8	5	35	70	15	105	210	18	2
Law	8	3	21	42	9	63	126	10	1.3
Medical	8 or 10	3.75	26	52	11	79	158	12	1.6
Newspapers, Bound	18	3.75	4.5	☆	1.125	13.5	☆	1	.13
Periodicals, Bound	10 or 12	3.75	26	52	11	79	158	11	1.6
Periodicals, Unbound	16	—	—	—	—	—	—	—	—
Public Documents	8	3.75	26	52	11	79	158	12	1.6
Reference	8 or 10	5	35	70	15	105	210	18	2
Technical & Scientific	8 or 10	4.5	31	62	13	94	188	15	1.9
U. S. Patent Specifications	8	1.5	10.5	21	4.5	31	63	5	.6
Average, All Classes	8	6	42	84	18	125	250	19	2.5

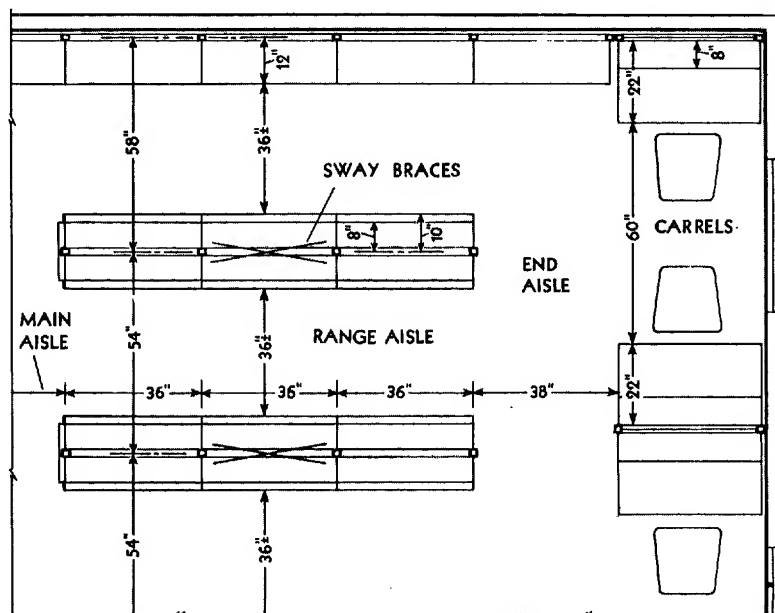
\*Newspaper Shelving can only be hung S.F. without disturbing normal range spacing.

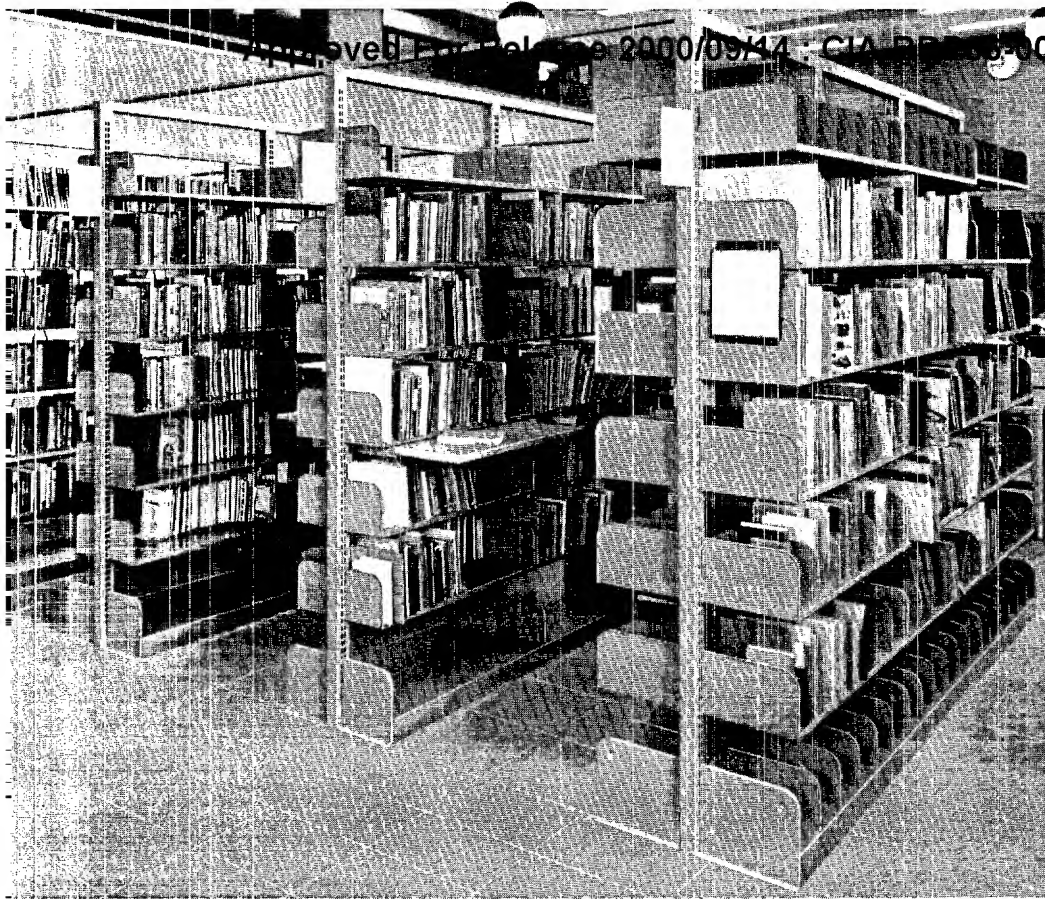
—Adapted and expanded from a table in Wheeler and Githens "The American Public Library Building," page 415

## LAYOUT PLANNING

The partial plan shown gives the recommended widths for various aisles. MAIN AISLE WIDTHS should be 48" normal to 44" minimum. TRANSVERSE AISLE WIDTHS vary from 36" to 45". They are best made by omitting shelves on one or both sides of a normal range aisle. These shelves can be added easily at a later date if conditions change. RANGE LENGTHS are 8 to 10 units (24 to 30 feet) maximum for active ranges open to aisles at both ends; and 6 bays (18 feet) for ranges open at one end. Infrequently used ranges can be wider.

Where ceiling heights are moderate (up to approximately 8½ feet), Unitype Floor-to-Ceiling Bookstacks provide the ultimate in compact efficiency. Where maximum capacity is required and ceiling heights are over 14 feet, Unitype Bookstacks combine ideally with Art Metal Steel-Ceil-Rite Deck Floors to make a sturdy two or three tier stack. Stackroom capacity often can be doubled or tripled by superimposing another tier or two tiers on the present single tier Unitype Bookstacks.





library services embrace all phases of stackroom planning with librarians and architects, and include an extensive choice of custom-made and stock book-stacks, stackroom furniture and accessories and steel library office equipment—a complete service from one widely experienced and dependable producer.



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